ABBEY
MACHINERY



Low Emission Slurry Applicator Range

TRUSTED BY GENERATIONS

SINCE 1947

00 353 (0)67 26677 info@abbeymachinery.com abbeymachinery.com

Advanced Slurry Spreading Technology

Discover Abbey Machinery's innovative Low Emission Slurry Spreading range, designed to ensure even application of nutrient-rich liquid manure, regardless of weather conditions, crop type, or application date. Our range includes Band Spreaders, Agri Pro Trailing Shoes, Flexi Shoes, Premium Plus Trailing Shoes, Cereal Applicators, and Shallow Disc Injectors in various widths.

Benefits of Low Emission Slurry Spreading

Abbey Machinery's LESS Applicators are crucial for efficiently meeting emissions reduction regulations while saving costs through precise nutrient application. Benefits include up to 60% reduction in nitrogen loss, optimal nutrient delivery, improved farm carbon footprint, increased organic fertiliser utilisation, even application, and reduced odour during spreading.

Band Spreader

Meticulously designed for precise and even distribution. These robust, fully galvanised spreaders are available in 7.7m, 9.2m, 10.7m, and 12m models, ensuring versatility across various farm sizes. Featuring vertically folding booms, chassis-mounted applicators, and the advanced Centrally Mounted Distributor, each unit guarantees efficient nutrient application while enhancing safety with improved visibility through rear lighting systems. With the addition of the Abbey Machinery umbilical frame, band spreaders can be easily mounted to the tractor for additional spreading options.



SIZES AND SPECIFICATIONS

Size	HP Required	Minimum Working Height	Gross Weight	Maximum Transport Width	Maximum Height Rigid Mounted	Maximum Height if Mast Mounted	Central Distributor
7.7M	73Hp	150mm	615Kg	2.62m	3.5m	3.65m	Standard
9.2M	73Hp	150mm	795Kg	2.62m	2.95m	3.40m	Standard
10.7M	73Hp	150mm	850Kg	2.62m	3.25m	3.40m	Standard
12M	73Hp	150mm	900Kg	2.62m	3.25m	3.40m	Standard

Premium Distributors

All Applicator machines feature the choice of premium Alrena and Vogelsang distributors:

ALRENA DISTRIBUTOR

- Rotating cutting system with round discs.
- Heavy-duty plates for enhanced cutting and blockage prevention.
- Precise slurry distribution with a high air flow system.

VOGELSANG DISTRIBUTOR

- Efficient slurry distribution with larger cross-sections and flow guide plates.
- Up to 50% reduced power requirements.
- Up to 50% longer service life with optimized ExaCut rotor technology, reducing speed and internal pressure.

Agri Pro Trailing Shoe

Enhance your slurry application with the Agri Pro Trailing Shoe from Abbey Machinery, designed for precise soil engagement and exceptional contour following. This advanced applicator features a 40mm hose, 5” distribution pipe, and a Centrally Mounted Distributor for even slurry distribution, a robust stone trap system, and a self-levelling boom that adjusts to uneven terrains. Ideal for hilly landscapes, the Agri Pro offers superior flotation and minimal soil compaction, complete with a convenient direct-fill option from the applicator to the tank.





SIZES AND SPECIFICATIONS

Size	HP Required	Gross Weight	Maximum Transport Width	Maximum Transport Height	Central Distributor
7.7M	75Hp	900Kg	2.6m	3.3m	Standard
9.2M	75Hp	1246Kg	2.6m	3.2m	Standard
10.2M	75Hp	1298Kg	2.6m	3.2m	Standard

Flexi Shoe

The Abbey Flexi Shoe offers a versatile 7.7M trailing shoe applicator designed for efficiency and precision. Featuring a vertical Folding system with a spring-loaded break-back, chassis mounted, for easy operation. Equipped with a 30-hole distributor, 5” feed pipe, and 40mm hose, it ensures accurate slurry application. The Flexi Shoe also includes a splash plate attachment facility and rear lights for added functionality. This robust system is built to enhance farm productivity with flexibility and ease.



Premium Plus Trailing Shoe

The Premium Plus Trailing Shoe is fully galvanized and features a unique 6-point linkage for optimal ground flotation. Its unique boom geometry allows it to easily follow ground contours. Hydraulic folding rams protect the hoses during transport, while the vertical folding design minimizes transport width. A central distributor chops and evenly distributes slurry. Additionally, Premium Plus Applicators support the use of an umbilical arm.



SIZES AND SPECIFICATIONS

Size	HP Required	Minimum Transport Height	Gross Weight	Maximum Transport Width	Maximum Height Rigid Mounted	Central Distributor	Auto Reverse Valve	Folding
7.7M	73Hp	350mm	1,150Kg	2.56m	3.59m	Standard	Standard	Vertical Single Fold
8.7M	73Hp	350mm	1,290Kg	2.56m	3.34m	Standard	Standard	Multi Fold
10.7M	73Hp	350mm	1,410Kg	2.56m	3.34m	Standard	Standard	Multi Fold

Shallow Disc Injector

Introducing the Abbey Premium Plus Shallow Disc Injector, engineered for enhanced nitrogen retention in pasture grounds. This robust, fully galvanized unit creates precise slurry lines for rapid nutrient absorption and even distribution, minimizing odor and nitrogen loss. Featuring a self-leveling boom that adapts to varying terrains, 40mm piping, and an advanced direct porting pulsating macerator, it extends the application season and improves slurry fertilizer value. Ideal for efficient slurry management, this injector ensures optimal performance and sustainability.





SIZES AND SPECIFICATIONS

Size	Overall Working Width	Overall Transport Width	Boot Spacing Distance
4M	4m	2.6m	0.25m
5M	5m	2.6m	0.25m
6M	6m	2.6m	0.25m

Cereal Applicator

Meticulously designed for precise nutrient delivery across cereal and other crop applications. Available in a range from 12m to 36m, these applicators are tailored to enhance the efficiency of low emission slurry spreading, providing uniform coverage while minimising environmental impact. Each applicator features innovative swing-up boom arms that secure the pipes upwards during transport to prevent spillage. Ideal for diverse agricultural settings, Abbey's Cereal Applicators combine advanced technology with practical design to ensure optimal crop health and yield.



Smart Technology Options

Abbey Machinery's LESS applicators leverage cutting-edge NIR and ISOBUS technologies to optimise nutrient measurements and application control.

NIR SENSING

NIR technology enables farmers to accurately measure the precise amounts of nitrogen, potassium, and phosphate applied to their fields. When integrated with GPS, this system provides site-specific data, significantly reducing the need for artificial fertilisers and ensuring optimal nutrient distribution.

ISOBUS SOLUTIONS

The ISOBUS solution actively controls the tanker and application rate technology, allowing the distributor head to function electronically in a sequenced group of actions. The boom arms lower, gate valves open, and the distributor activates in a timed sequence. If the distributor senses overpressure, the ISOBUS solution detects it and automatically reverses the distributor head to clear any potential blockage.